

AMENDMENTS TO THE CLAIMS:

Claim 1-26 (canceled)

27 (currently amended). An emulsion comprising, ~~an oil-in-water~~ a water-in-oil emulsion stabilized by a surfactant, said emulsion further including a plurality of zero-valent metal particles contained within an emulsion micelle.

28 (previously presented). The emulsion of claim 27, wherein said plurality of zero-valent metal particles is a plurality of zero-valent iron particles.

29 (previously presented). The emulsion of claim 27, wherein said surfactant is selected from the group consisting of sodium sulfocinate, sorbitan sesquioleate, sorbitan monooleate, sorbitan trioleate, sodium dodecylbenzene sulfonate, sodium naphthalene sulfonate, sodium lauryl sulfate, sorbitan monostearate, polyoxyethylene-sorbitan monostearate, polyoxyethylene-sorbitan tristearate, polyoxyethylene-sorbitan monooleate and polyoxyethylene-sorbitan trioleate.

30 (previously presented). The emulsion of claim 27, wherein said surfactant is a food-grade surfactant.

31 (currently amended). The emulsion of claim 27, wherein said ~~oil-in-water~~ water-in-oil emulsion includes a food-grade vegetable oil.

32 (previously presented). The emulsion of claim 31, wherein said food-grade vegetable oil is corn oil.

33 (currently amended). A reactive system comprising, an oil, water and surfactant emulsion, said emulsion further including zero-valent metal particle reactants contained within an emulsion micelle.

34 (previously presented). The reactive system of claim 33, wherein said zero-valent metal particle reactants are zero-valent iron particles.

35 (previously presented). The reactive system of claim 33, wherein said emulsion includes a surfactant selected from the group consisting of sodium sulfocinate, sorbitan sesquioleate, sorbitan monooleate, sorbitan trioleate, sodium dodecylbenzene sulfonate, sodium naphthalene sulfonate, sodium lauryl sulfate, sorbitan monostearate, polyoxyethylene-sorbitan monostearate, polyoxyethylene-sorbitan tristearate, polyoxyethylene-sorbitan monooleate and polyoxyethylene-sorbitan trioleate.

36 (previously presented). The reactive system of claim 33, wherein said emulsion includes a food-grade surfactant.

37 (previously presented). The reactive system of claim 33, wherein said emulsion includes a food-grade vegetable oil.

38 (previously presented). The reactive system of claim 37, wherein said food-grade vegetable oil is corn oil.